RECEIVED CENTRAL FAX CENTER

OCT 1 2 2006

IN THE CLAIMS:

3012618825

Please substitute the following claims for the same-numbered claims in the application:

1. (Original) A method of searching data in databases using an ensemble of models, said method comprising:

ordering models within said ensemble in order of prediction accuracy, with the most accurate model being first in said order;

selecting a sub-ensemble of said models that meets a given level of confidence, wherein models are joined together in said sub-ensemble in said order of prediction accuracy; and

applying said sub-ensemble, in place of said ensemble, to an example to make a prediction.

- 2. (Original) The method in claim 1, wherein said sub-ensemble includes fewer models than said ensemble.
- 3. (Original) The method in claim 1, wherein said confidence is a measure of how closely results from said sub-ensemble will match results from said ensemble.
- 4. (Original) The method in claim 1, wherein, the size of each sub-ensemble is different and has a potentially different level of confidence.

GIBB IP LAW

- 5. (Original) The method in claim 1, wherein the size of said ensemble is fixed.
- 6. (Original) The method in claim 1, wherein as the level of confidence is raised, a sub-ensemble that has more models will be selected in said selecting process, and as the level of confidence is lowered, a sub-ensemble that has fewer models will be selected in said selecting process.
- 7. (Original) The method in claim 1, further comprising, before said selecting, calculating confidence values of different sub-ensembles.
- 8. (Original) A method of searching data in databases using an ensemble of models, said method comprising:

ordering models within said ensemble in order of prediction accuracy, with the most accurate model being first in said order;

selecting a sub-ensemble of said models that meets a given level of confidence, wherein models are joined together in said sub-ensemble in said order of prediction accuracy, such that said sub-ensemble include only the most accurate models; and

applying said sub-ensemble, in place of said ensemble, to an example to make a prediction.

9. (Original) The method in claim 8, wherein said sub-ensemble includes fewer models than said ensemble.

10/737,123

- 10. (Currently Amended) The method in claim 8, wherein said confidence is a measure of how closely results from said sub-ensemble will match results from said ensemble.
- 11. (Original) The method in claim 8, wherein the size of each sub-ensemble is different and has a potentially different level of confidence.
- 12. (Original) The method in claim 8, wherein the size of said ensemble is fixed.
- 13. (Original) The method in claim 8, wherein as the level of confidence is raised, a sub-ensemble that has more models will be selected in said selecting process, and as the level of confidence is lowered, a sub-ensemble that has fewer models will be selected in said selecting process.
- 14. (Original) The method in claim 8, further comprising, before said selecting, calculating confidence values of different sub-ensembles.
- 15. (Original) A method of searching data in databases using an ensemble of models, said method comprising:

performing training comprising:

10/737,123

ordering models within said ensemble in order of prediction accuracy, with the most accurate model being first in said order;

joining different numbers of models together to form sub-ensembles, wherein models are joined together in said sub-ensemble in said order of prediction accuracy;

calculating confidence values of each of said sub-ensembles; and making a prediction comprising:

selecting a sub-ensemble of said models that meets a given level of confidence; and

applying said sub-ensemble, in place of said ensemble, to an example to make a prediction.

- 16. (Original) The method in claim 15, wherein said sub-ensemble includes fewer models than said ensemble.
- (Original) The method in claim 15, wherein said confidence is a measure of how 17. closely results form said sub-ensemble will match results from said ensemble.
- (Original) The method in claim 15, wherein the size of each sub-ensemble is 18. different and has a potentially different level of confidence.
- (Original) The method in claim 15, wherein the size of said ensemble is fixed. 19. 10/737,123

10/12/2006

- 20. (Original) The method in claim 15, wherein as the level of confidence is raised, a sub-ensemble that has more models will be selected in said selecting process, and as the level of confidence is lowered, a sub-ensemble that has fewer models will be selected in said selecting process.
- 21. (Original) A service of searching data in databases using an ensemble of models, said service comprising:

ordering models within said ensemble in order of prediction accuracy, with the most accurate model being first in said order;

selecting a sub-ensemble of said models that meets a given level of confidence, wherein models are joined together in said sub-ensemble in said order of prediction accuracy; and

applying said sub-ensemble, in place of said ensemble, to an example to make a prediction.

- 22. (Original) The service in claim 21, wherein said sub-ensemble includes fewer models than said ensemble.
- 23. (Original) The service in claim 21, wherein said confidence is a measure of how closely results form said sub-ensemble will match results from said ensemble.

10/737,123

- 24. (Original) The service in claim 21, wherein the size of each sub-ensemble is different and has a potentially different level of confidence.
- 25. (Original) The service in claim 21, wherein the size of said ensemble is fixed.
- 26. (Original) The service in claim 21, wherein as the level of confidence is raised, a sub-ensemble that has more models will be selected in said selecting process, and as the level of confidence is lowered, a sub-ensemble that has fewer models will be selected in said selecting process.
- 27. (Original) The service in claim 21, further comprising, before said selecting, calculating confidence values of different sub-ensembles.
- 28. (Original) A program storage device readable a computer tangibly embodying a program of instructions executable by said computer for performing a method of searching data in databases using an ensemble of models, said method comprising:

ordering models within said ensemble in order of prediction accuracy, with the most accurate model being first in said order;

selecting a sub-ensemble of said models that meets a given level of confidence, wherein models are joined together in said sub-ensemble in said order of prediction accuracy; and

applying said sub-ensemble, in place of said ensemble, to an example to make a prediction.

- 29. (Original) The program storage device in claim 28, wherein said sub-ensemble includes fewer models than said ensemble.
- 30. (Original) The program storage device in claim 28, wherein said confidence is a measure of how closely results form said sub-ensemble will match results from said ensemble.
- 31. (Original) The program storage device in claim 28, wherein the size of each subensemble is different and has a potentially different level of confidence.
- 32. (Original) The program storage device in claim 28, wherein the size of said ensemble is fixed.
- 33. (Original) The program storage device in claim 28, wherein as the level of confidence is raised, a sub-ensemble that has more models will be selected in said selecting process, and as the level of confidence is lowered, a sub-ensemble that has fewer models will be selected in said selecting process.

- 34. (Original) The program storage device in claim 28, further comprising, before said selecting, calculating confidence values of different sub-ensembles.
- 35. (Original) A system for searching data in databases using an ensemble of models, said method comprising:

means for ordering models within said ensemble in order of prediction accuracy, with the most accurate model being first in said order;

means for selecting a sub-ensemble of said models that meets a given level of confidence, wherein models are joined together in said sub-ensemble in said order of prediction accuracy; and

means for applying said sub-ensemble, in place of said ensemble, to an example to make a prediction.